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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/711,618	09/29/2004	Ling-Wei Ke	MTKP0080USA	5617
27765 7	590 01/25/2006		EXAMINER	
NORTH AMERICA INTELLECTUAL PROPERTY CORPORATION			STERRETT, JEFFREY L	
P.O. BOX 506 MERRIFIELD			ART UNIT PAPER NUMBER	
MERRIFIELD	', VA 22110		2838	

DATE MAILED: 01/25/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	- 10
	10/711,618	KE ET AL.	
Office Action Summary	Examiner	Art Unit	
	Jeffrey L. Sterrett	2838	
The MAILING DATE of this communica Period for Reply	tion appears on the cover sheet w	ith the correspondence ad	dress
A SHORTENED STATUTORY PERIOD FOR WHICHEVER IS LONGER, FROM THE MAII  Extensions of time may be available under the provisions of after SIX (6) MONTHS from the mailing date of this communi  If NO period for reply is specified above, the maximum statut  Failure to reply within the set or extended period for reply will Any reply received by the Office later than three months after earned patent term adjustment. See 37 CFR 1.704(b).	LING DATE OF THIS COMMUNI 17 CFR 1.136(a). In no event, however, may a cation. Dry period will apply and will expire SIX (6) MOI 1, by statute, cause the application to become A	CATION. reply be timely filed  NTHS from the mailing date of this or BANDONED (35 U.S.C. § 133).	
Status			
<ol> <li>Responsive to communication(s) filed of the communication (s).</li> <li>This action is FINAL.</li> <li>Since this application is in condition for closed in accordance with the practice.</li> </ol>	☑ This action is non-final.  allowance except for formal mat	•	e merits is
Disposition of Claims			
4) ☐ Claim(s) 1-24 is/are pending in the approach 4a) Of the above claim(s) is/are  5) ☐ Claim(s) is/are allowed.  6) ☐ Claim(s) 1-24 is/are rejected.  7) ☐ Claim(s) is/are objected to.  8) ☐ Claim(s) are subject to restriction	withdrawn from consideration.		
Application Papers			
9) ☐ The specification is objected to by the E 10) ☑ The drawing(s) filed on 29 September 2 Applicant may not request that any objection Replacement drawing sheet(s) including the second or declaration is objected to be	2004 is/are: a) accepted or b) to the drawing(s) be held in abeya e correction is required if the drawing	nce. See 37 CFR 1.85(a). g(s) is objected to. See 37 CF	FR 1.121(d).
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for a) All b) Some * c) None of:  1. Certified copies of the priority do 2. Certified copies of the priority do 3. Copies of the certified copies of application from the Internationa * See the attached detailed Office action f	cuments have been received. cuments have been received in A the priority documents have beer I Bureau (PCT Rule 17.2(a)).	Application No n received in this National	Stage
Attachment(s)  1) Motice of References Cited (PTO-892)  2) Motice of Draftsperson's Patent Drawing Review (PTC		Summary (PTO-413) (s)/Mail Date	
<ul> <li>2) Notice of Dransperson's Patent Drawing Review (PTC)</li> <li>3) Information Disclosure Statement(s) (PTO-1449 or PT Paper No(s)/Mail Date <u>9/29/04</u>.</li> </ul>		Informal Patent Application (PTC	O-152)

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1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

2. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the bypass capacitor connected to the second receiving terminal of the amplifier circuit as recited by claim 2 must be shown or the feature canceled from the claim. It is noted that in lines 2-4 of claim 1 the first receiving terminal is defined as receiving the reference voltage and the second receiving terminal is defined as receiving the feedback voltage.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next

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Office action. The objection to the drawings will not be held in abeyance. No new matter should be entered.

- 3. Claim 2 is objected to because in line 2 "second" should be –first- (see objection to the drawings above for reasoning). Appropriate correction is required.
- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 1, 3-15, and 17-24 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Smith (US 6,414,537).

Smith teaches a voltage regulator circuit as recited by claims 1, 3-15, and 17-24 except for utilizing first and second discharge transistors instead of single discharge transistor 210. The recitation of a series connection of two discharge transistors instead of single discharge transistor 210 across the loading module (capacitor CL and resistors R1 and R2), which is connected between the output node VR/206 and the second voltage source (circuit ground), is not a patentable difference. Whether one of ordinary skill in the art chooses to directly connect, or short-circuit, the output node VR/206 and the second voltage source (circuit ground) by utilizing a single transistor as done by Smith or two transistors as done by applicant is irrelevant since nodes 206 and 208 in Smith are all pulled down to ground by the conduction of transistor 210 just as readily as nodes NOUT and NF1 in applicants circuit are all pulled down to ground by the conduction of transistors 41 and 42.

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6. Claims 2 and 16 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Smith.

Smith teaches a voltage regulator circuit as recited by claims 2 and 16 except for utilizing a bypass capacitor on one of the receiving terminals of the amplifier. Official notice is taken that utilizing bypass capacitors to filter or bypass certain frequency components was an old and known expedient in the art at the time of the invention. It would have been obvious to one of ordinary skill in the art at the time of the invention to have modified the voltage regulator circuit of Smith by utilizing a bypass capacitor in order to filter or bypass undesired frequency components as was old and known in the art at the time of the invetion.

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Lee (US 6,177,785) is cited to show a voltage regulator circuit old and known in the art at the time of the invention.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeffrey L. Sterrett whose telephone number is (571) 272-2085. The examiner can normally be reached on Monday-Thursday & 8:00am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Karl D. Easthom can be reached on (571) 272-1989. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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